

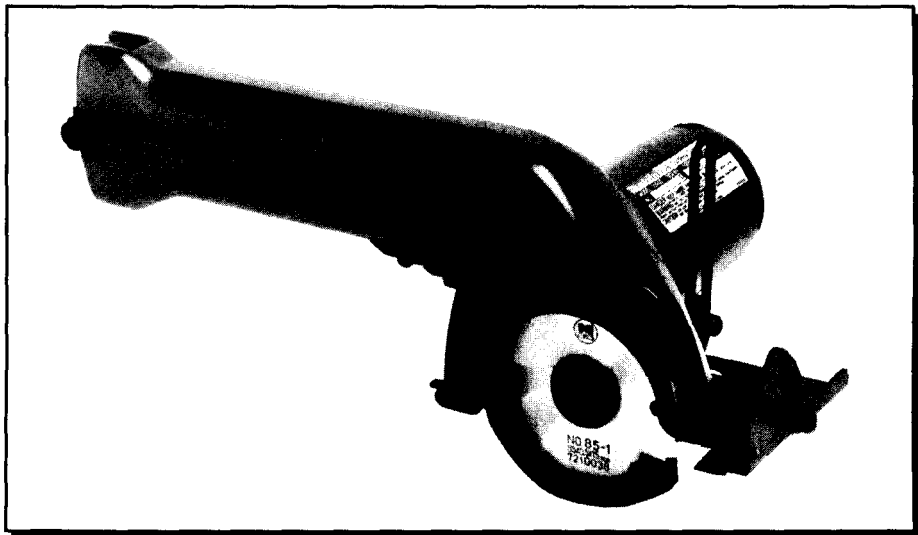
Makita

Cordless Circular Saw

Models 5090D, 5090DW

85mm (3³/₈")
With Fast Charger

INSTRUCTION MANUAL



SPECIFICATIONS

Model 5090D

Blade diameter	Cutting depth		No load speed (RPM)	Overall length	Net weight
	90°	45°			
85 mm (3 ³ / ₈ ")	0 - 22 mm (0 - 55/64")	2 - 18 mm (5/64 - 45/64")	1,000	313 mm (12 ³ / ₈ ")	1.8 kg. (4 lbs.)

Battery Cartridge 9000		Model DC9700A Fast Charger	
Voltage	Charging time	Input	Output
9.6 V	1 Hr.	A.C. only 50 Hz - 60 Hz.	D.C. 7.2 V - 9.6 V

* Manufacturer reserves the right to change specifications without notice.

* Note: Specifications may differ from country to country.

IMPORTANT SAFETY INSTRUCTIONS

FOR ALL TOOLS

WARNING: When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

READ ALL INSTRUCTIONS.

1. **Keep work area clean.** Cluttered areas and benches invite injuries.
2. **Consider work area environment.** Do not use power tools in damp or wet locations. Keep work area well lit. Do not expose power tools to rain. Do not use tool in presence of flammable liquids or gases.
3. **Keep children away.** All visitors should be kept away from work area. Do not let visitors contact tool or extension cord.
4. **Store idle tools.** When not in use, tools should be locked-up or stored in a dry, high place — out of reach of children.
5. **Do not force tool.** It will do the job better and safer at the rate for which it was intended.
6. **Use correct tool.** Do not force small tool or attachment to do the job of a heavy-duty tool. Do not use tool for purpose not intended.
7. **Dress appropriately.** Do not wear loose clothing or jewelry. It can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
8. **Use safety glasses.** Also use face or dust mask if cutting operation is dusty.
9. **Do not abuse cord.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
10. **Secure workpiece.** Use clamps or a vise to hold work. It is safer than using your hand; it also leaves both hands free to operate tool.
11. **Do not over-reach.** Keep proper footing and balance at all times.
12. **Maintain tools with care.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and, if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.
13. **Disconnect tools** when not in use, before servicing, and when changing accessories, such as blades, bits, and cutters.
14. **Remove adjusting keys and wrenches.** Check to ensure that keys and adjusting wrenches are removed from tool before turning the tool on.
15. **Avoid unintentional starting.** Do not carry plugged-in tool with finger on switch. Be sure switch is OFF when plugging in.

16. **Outdoor use extension cords.** When tool is used outdoors, use only extension cords intended for outdoor use and so marked.
17. **Stay alert.** Watch what you are doing. Do not operate tool when you are tired.
18. **Check damaged parts.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect tool operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Defective switches should be replaced by an authorized service center. Do not use tool if the switch does not turn the tool on and off.
19. **Guard against electric shock.** Prevent body contact with grounded surfaces, for example: pipes, radiators, ranges, refrigerator enclosures.
20. **Replacement parts.** When servicing, use only identical replacement part.

VOLTAGE WARNING: Before connecting the tool to a power source (receptacle outlet, etc.) be sure the voltage supplied is the same as that specified on the nameplate of the tool. A power source with voltage greater than that specified for the tool can result in **SERIOUS INJURY** to the user—as well as damage to the tool. If in doubt, **DO NOT PLUG IN THE TOOL**. Using a power source with voltage less than the nameplate rating is harmful to the motor.

IMPORTANT SAFETY INSTRUCTIONS

FOR BATTERY

1. Always **Cover the Battery Terminals** with the battery cover when the battery cartridge is not in use.
2. **Do not short the Battery Cartridge:**
 - i. Do not touch the terminals with any conductive material.
 - ii. Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.
 - iii. Do not expose battery cartridge to water or rain. A battery short can cause a large current flow, overheating, possible burns, and even a breakdown.
3. **Do not store** the tool and Battery Cartridge in locations **where the temperature may reach or exceed 50°C (122°F)**.
4. **Do not incinerate the Battery Cartridge** even if it is severely damaged or completely worn out. The battery cartridge can explode in a fire.

IMPORTANT SAFETY INSTRUCTIONS *continued*

FOR BATTERY AND CHARGER

1. **Before using battery charger, read all instructions and cautionary markings on:**
 - i. battery charger
 - ii. battery
 - iii. product using battery.
 2. To reduce risk of injury, **charge only MAKITA Battery 7000, 9000, or 9100.** Other types of batteries may burst causing personal injury and damage.
 3. **Do not disassemble charger or battery cartridge;** take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
 4. **Do not charge Battery Cartridge when temperature is BELOW 10°C (50°F) or ABOVE 40°C (104°F).**
-

FOR CHARGER

1. **SAVE THESE INSTRUCTIONS-** This manual contains important safety and operating instructions for battery charger.
2. **Do not expose charger to rain or snow.**
3. **Use attachment recommended or sold only by the battery charger manufacturer.** Use of any other attachment may result in a risk of fire, electric shock, or injury to persons.
4. **Do not operate charger if it has received a sharp blow,** been dropped, or otherwise damaged in any way; take it to a qualified serviceman.
5. To reduce risk of electric shock, **unplug charger from outlet before attempting any maintenance or cleaning.** Turning off controls will not reduce this risk.
6. **Do not attempt to use a step-up transformer, an engine generator, or a DC power receptacle.**
7. **Do not allow anything to cover or clog the charger vents.**

SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS *continued*

FOR CORD

1. To reduce risk of damage to electric plug and cord, **pull by plug rather than by cord when disconnecting charger.**
2. **Make sure cord is located** so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
3. **An extension cord should not be used unless absolutely necessary.** Use of improper extension cord could result in a risk of fire and electric shock. If extension cord must be used, make sure that:
 - i. Pins on plug of extension cord are the same number, size, and shape as those of plug on charger.
 - ii. Extension cord is properly wired and in good electrical condition.
 - iii. Wire size is at least as large as the one specified in the table below.

**RECOMMENDED MINIMUM AWG SIZE FOR
EXTENSION CORDS FOR BATTERY CHARGERS**

Length of Cord (Feet)	25	50	100	150
AWG Size of Cord	18	18	18	16

FOR CORD AND CHARGER

1. **Do not operate charger with damaged cord or damaged plug** — replace them immediately.

SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS *continued*

FOR USE OF SAW

1. **Be aware that this tool is always in an operating condition** because it does not have to be plugged into an electrical outlet.
2. **Keep Guards In Place and In Working Order.** Never wedge or tie lower guard open. Check operation of lower guard before each use. Do not use if lower guard does not close briskly over saw blade.
CAUTION: If saw is dropped, lower guard may be bent, restricting full return.
3. **Keep Blades Clean and Sharp.** Sharp blades minimize stalling and kickback.
4. **DANGER: Keep Hands Away From Cutting Area.**
Keep hands away from blades. Do not reach underneath work while blade is rotating. Do not attempt to remove cut material while blade is moving.
CAUTION: Blades coast after turn off.

5. **Support Large Panels.**
Large panels must be supported as shown in Fig. 1 to minimize the risk of blade pinching and kickback.

When cutting operation requires the resting of the saw on the work piece, **the saw should be rested on the larger portion** and the smaller piece cut off.

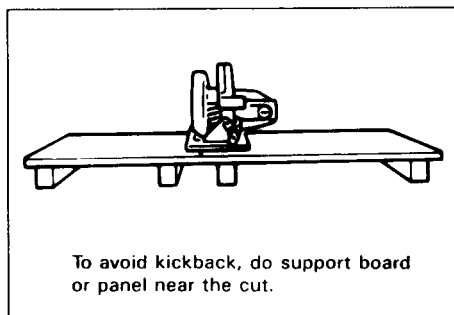


Fig. 1

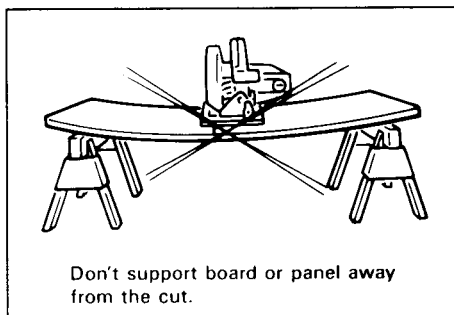


Fig. 2

6. **Use Rip Fence.** Always use a fence or straight edge guide when ripping.

7. **Guard Against Kickback.** Kickback occurs when the saw stalls rapidly and is driven back towards the operator. Release switch immediately if blade binds or saw stalls. Keep blades sharp. Support large panels as shown in Fig. 1. Use fence or straight edge guide when ripping. Do not force tool. Stay alert exercise control. Do not remove saw from work during a cut while the blade is moving.

NEVER place your hand or fingers behind the saw. If kickback occurs, the saw could easily jump backwards over your hand, possibly causing severe injury (see Fig. 3).

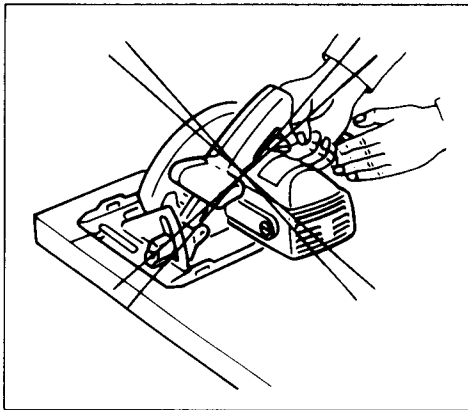


Fig. 3

8. **Lower Guard.** Raise lower guard with the retracting handle.
9. **Adjustments.** Before cutting be sure depth and bevel adjustments are tight.
10. **Use Only Correct Blades In Mounting.** Do not use blades with incorrect size holes. Never use defective or incorrect blade washers or bolts.
11. **Avoid Cutting Nails.** Inspect for, and remove, all nails from lumber before cutting.
12. **Operate with proper hand support and proper workpiece support** (see Fig. 4).

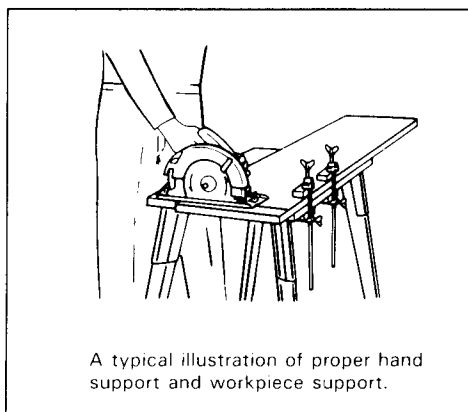


Fig. 4

WARNING:

It is important to support the workpiece properly and to hold the saw firmly to prevent loss of control which could cause personal injury. Fig. 4 illustrates typical hand support of the saw.

13. **Place the wider portion of the saw base on that part of the workpiece which is solidly supported, not on the section that will fall off when the cut is made. If the workpiece is short or small, clamp it down. DON'T TRY TO HOLD SHORT PIECES BY HAND!**

Fig. 5 illustrates the **CORRECT** way to cut off the end of a board.

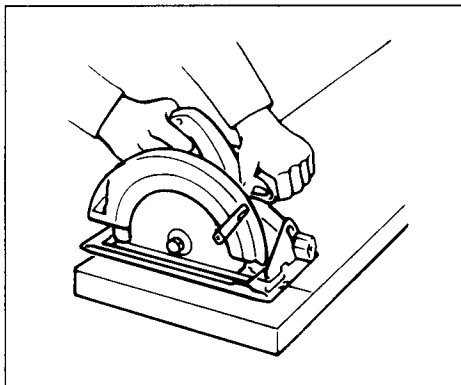


Fig. 5

Fig. 6 illustrates the **WRONG** way to cut off the end of a board.

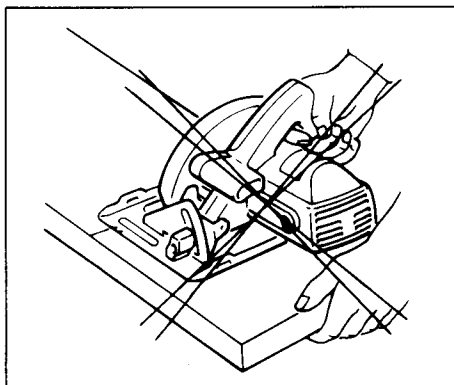


Fig. 6

14. **Never attempt to saw with the circular saw held upside down in a vise. This is extremely dangerous and can lead to serious accidents.**

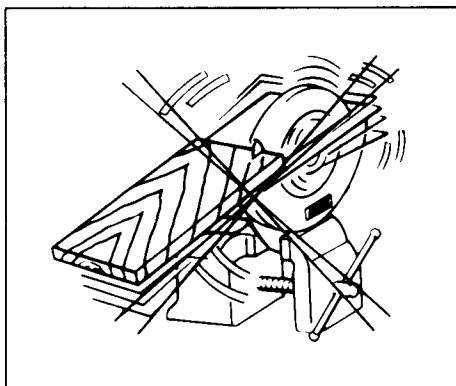


Fig. 7

15. **Before setting the tool down after completing a cut, be sure that the lower (telescoping) guard has closed and the blade has come to a complete stop.**

SAVE THESE INSTRUCTIONS

BATTERY

CAUTION: Always switch off the tool before insertion or removal of the battery cartridge.
Read the Safety Instructions for battery on pages 3 and 4.

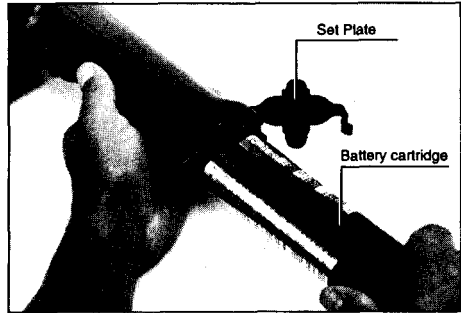
Installing or Removing the Battery

To remove the battery cartridge:

1. Pull out the set plate on the tool
2. Grasp both sides of the cartridge while withdrawing it from the barrel.

To insert the battery cartridge:

1. Align the tongue of the battery cartridge with the groove in the housing.
2. Slip the cartridge into place.
3. Snap the set plate back into place. Be sure to close the set plate fully before using the tool.



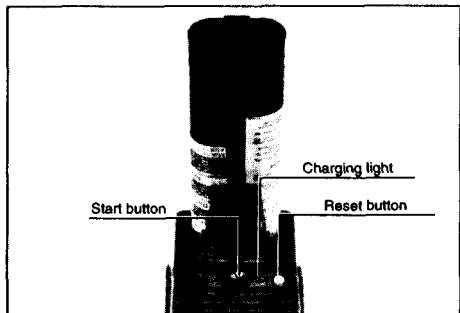
CAUTION: Do not use force when inserting the battery cartridge.
If the cartridge does not slide in easily, it is not being inserted correctly.

Charging the Battery

**CAUTION: YOUR NEW BATTERY CARTRIDGE IS NOT CHARGED.
YOU WILL NEED TO CHARGE IT BEFORE USE.**
Read Safety instructions on page 4 before charging battery.

To charge the battery:

1. Plug the fast charger into your power source.
2. Insert the battery cartridge so that the plus (+) and minus (-) terminals on the battery cartridge are on the same sides as their respective markings on the fast charger.
3. Insert the cartridge fully into the port so that it rests on the charger port floor.
4. Press the start button (red).
The charging light will come on and charging will begin.
(If the charging light does not come on, see **NOTE** on page 10).
5. When the charging light goes out after about one hour, you may remove the fully charged battery cartridge.
6. After charging, unplug the charger from the power source. **Charging continued**



Charging the Battery *continued*

NOTE: If the charging light does not come on:

- i. Press the Reset button (yellow)
- ii. Then press the Start button (red).

If the charging light goes out within 10 seconds even after pressing the Reset button and Start button a couple of times, the battery cartridge is dead. (**CAUTION:** Wait for more than 5 seconds after the charging light goes out before pressing the Reset button again).

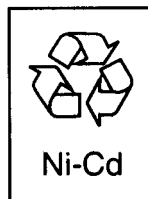
Replace the battery cartridge with a new one.

CAUTION

- Do not keep the button pressed in with tape, etc. or the circuit will not function properly. Also, a malfunction of the charger may result possibly causing overheating, etc.
 - If you try to charge a cartridge from a just-operated tool, sometimes the charging light will not come on. If this occurs, let the cartridge cool off for a while, then re-insert it and try to charge it once more.
 - If you wish to charge two battery cartridges, allow 15 minutes between chargings on the fast charger.
-

Recycling the Battery

The only way to dispose of a Makita battery is to recycle it. The law prohibits any other method of disposal.



To recycle the battery:

1. Remove the battery from the tool.
 2. a). Take the battery to your nearest Makita Factory Service Center
- OR**
- b). Take the battery to your nearest Makita Authorized Service Center or Distributor that has been designated as a Makita battery recycling location.
- *Call your nearest Makita Service Center or Distributor to determine the location that provides Makita battery recycling. See your local Yellow Pages under "Tools – Electric."*

SAW BLADE

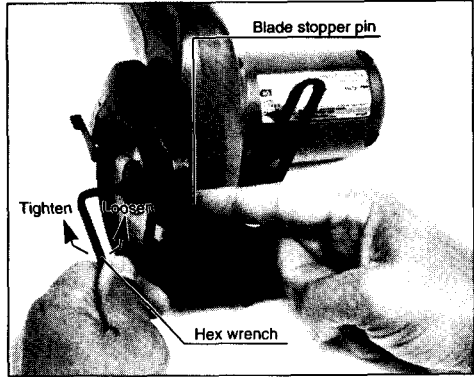
CAUTION: Always be sure that the tool is switched off and the battery cartridge is removed before installing or removing the blade.

Use only the Makita hex wrench to remove and install the blade.

Removing Saw Blade

To remove the blade:

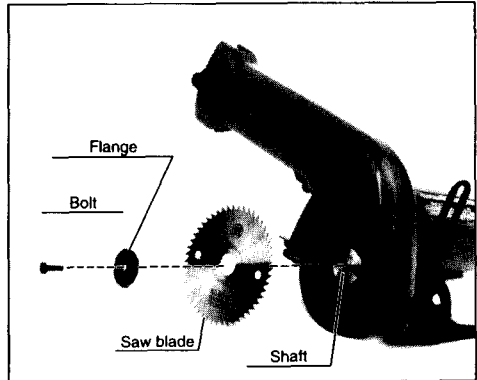
1. Press the blade stopper pin and insert it through the hole in the blade so that the blade cannot revolve.
2. Use the hex wrench to loosen the bolt.
3. Remove the bolt, flange, and blade.



Installing Saw Blade

To install the blade:

1. Place the blade over the spindle, with teeth pointing up at the front of the tool.
2. Place the flange over the blade.
3. Insert bolt into blade and flange.
4. Press the blade stopper pin and insert it through the hole in the blade so that the blade cannot revolve.
5. Use the hex wrench to tighten the bolt, flange, and blade in place.
BE SURE TO TIGHTEN THE BOLT SECURELY.



Hex Wrench Storage

When not in use, the hex wrench can be conveniently stored.



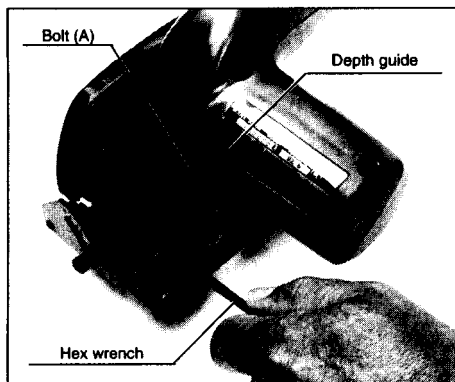
CUTTING ADJUSTMENTS

CAUTION: Remove battery before making any cutting adjustments.
Use only the Makita hex wrench to loosen the bolts.

Adjusting Depth of Cut

To adjust depth of cut:

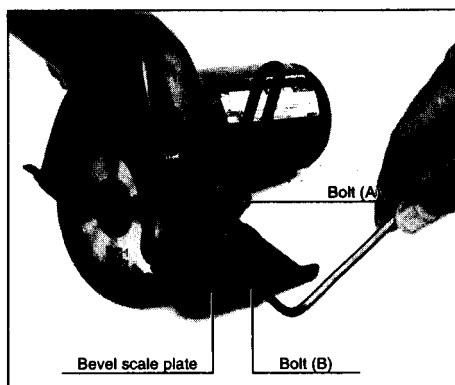
1. Using the hex wrench, loosen the bolt (A) on the depth guide.
2. Move the base up or down.
3. At the desired depth of cut, secure the base by tightening the bolt (A).



Bevel Cutting

For bevel cutting:

1. Using the hex wrench, loosen the bolt (A) on the depth guide.
2. Loosen the bolt (B) on the bevel scale plate.
3. Set the desired angle (0° – 45°) by tilting accordingly.
4. Tighten bolts (A) and (B) securely.



CAUTION: After adjusting depth of cut and bevel cutting angle, be sure to tighten the bolts (A) and (B) securely.

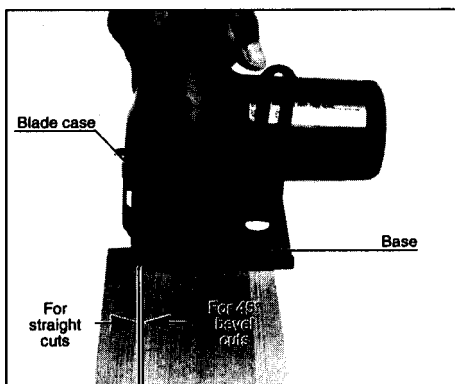
Sighting

For straight cuts:

1. Align the edge of the base with your cutting line on the workpiece.

For 45° bevel cuts:

1. Align the notch in the front of the base with your cutting line on the workpiece.



OPERATION

CAUTION: Read Safety Instructions on pages 6,7, and 8 before operating saw.

Switch Action

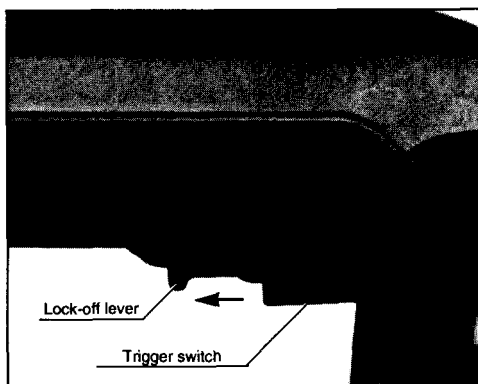
NOTE: To prevent the trigger from being pulled accidentally, a lock-off lever is provided as a safety feature.

To start the tool:

1. Slide the lock-off lever in the direction of the arrow
2. Pull the trigger switch.

To stop the tool:

1. Release the trigger switch.

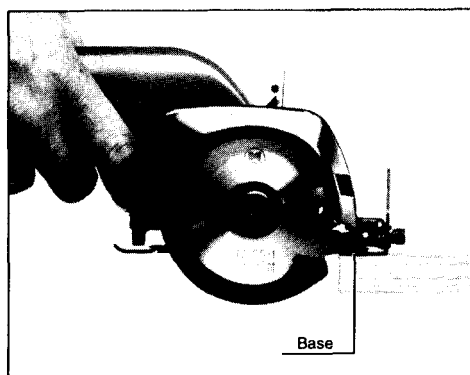


Operating the Tool

CAUTION: Before inserting the battery cartridge into the tool, always check to see that the trigger switch actuates properly and returns to the "OFF" position when released.

To operate the tool:

1. Hold the tool firmly.
2. Set the base plate on the workpiece to be cut without the blade making any contact.
3. Turn the tool on and wait until the blade attains full speed.
4. Then move the tool forward over the workpiece surface, keeping it flat and advancing smoothly until the sawing is completed.



Tip: To make a clean cut, keep your sawing line straight and keep your speed of advance constant.

CAUTION: If you use the tool continuously until the battery has discharged, allow the tool to reset for 15 minutes before proceeding with a fresh battery.

MAINTENANCE

CAUTION: Always be sure that the tool is switched off and the battery cartridge removed before attempting to perform inspection or maintenance.

To maintain product **SAFETY** and **RELIABILITY**, repairs, carbon brush inspection and replacement, or any other maintenance and adjustment should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.

OPTIONAL ACCESSORIES

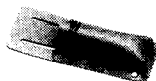
The accessories listed in this manual are available at an extra cost from your Makita distributor or Makita factory service center. Service centers are listed on the warranty card packed with your tool.

CAUTION: These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. These accessories or attachments should be used only in the proper and intended manner.

Hex Wrench
part no. 783202-0



Battery Holster
Holster holds extra battery
part no. 823033-3C



Battery Cover
part no. 414938-7



Battery Cartridge 9000
part no. 632007-0



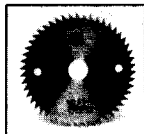
Fast Charger
Model DC9700A
part no. 113103-2



Charger 12V for car
Model DC9112
part no. 113110-5

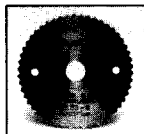


Combination Saw Blade
For rip and cross-cut work.
Has fewer teeth than
cross-cut blade for
faster cutting.



Part No.	Diameter (mm)	Hole diameter (mm)	No. teeth
721003-8	85 (3-3/8")	15 (19/32")	50

Plywood Saw Blade
For smooth splinter-free
cutting of plywood and
other laminates.

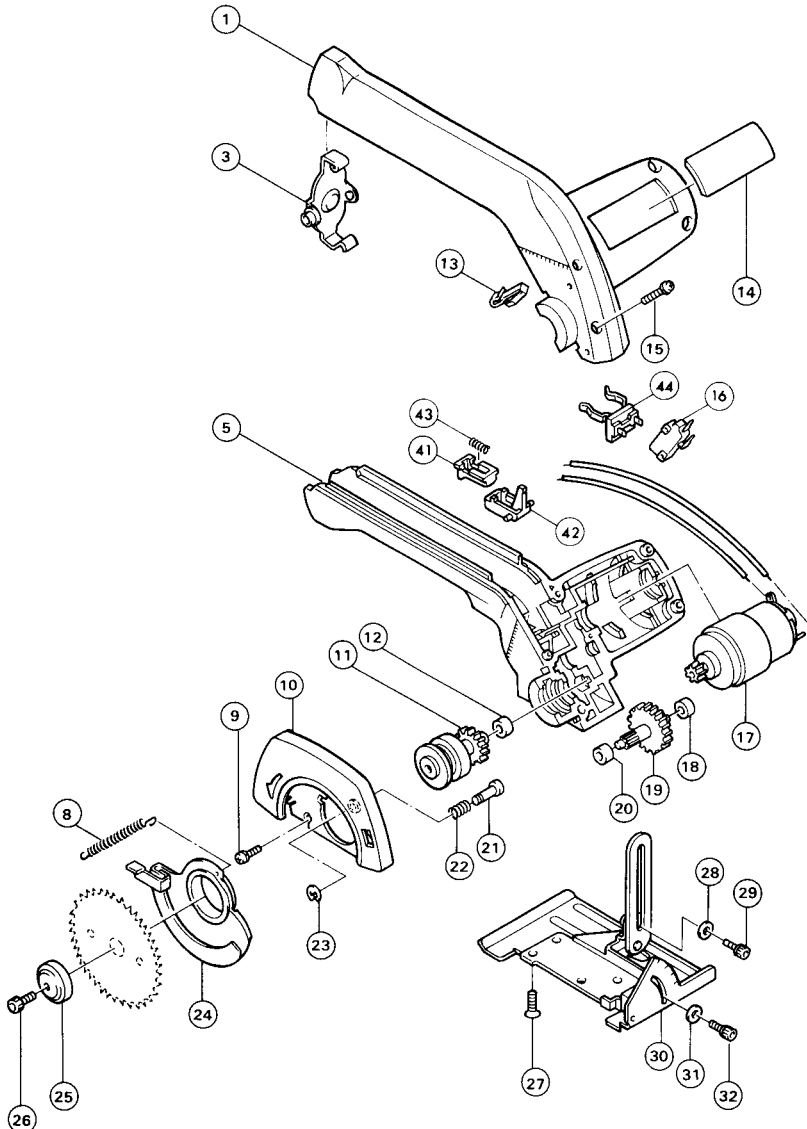


Part No.	Diameter (mm)	Hole diameter (mm)	No. teeth
792299-8	85 (3-3/8")	15 (19/32")	50

CORDLESS CIRCULAR SAW

Model 5090D

85 mm (3³/₈")



Note: The switch and other part configurations may differ from country to country.

CORDLESS CIRCULAR SAW PART DESCRIPTION

Item No.	Qty. Used	Description	Item No.	Qty. Used	Description
1	1	Housing Set (with item 5)	21	1	Pin 5
3	1	Set Plate	22	1	Compression Spring 6
5	1	Housing Set (with item 1)	23	1	Stop Ring E-4
8	1	Tension Spring 5	24	1	Safety Cover
9	3	Pan Head Screw M4x14 (with Washer)	25	1	Outer Flange 28
10	1	Blade Case	26	1	Hex. Socket Head Bolt M5x12
11	1	Gear	27	3	Countersunk Head Screw M5x16
12	1	Plane Bearing 5	28	1	Flat Washer 5
13	1	Leaf Spring	29	1	Hex Socket Head Bolt M5x10
14	1	Name Plate	30	1	Base
15	5	Pan Head Screw M4x25 (with Washer)	31	1	Flat Washer 5
16	1	Switch	32	1	Hex. Socket Head Bolt M5x10
17	1	DC Motor 9.6 V	41	1	Lock Off Lever
18	1	Plane Bearing 4	42	1	Switch Lever
19	1	Gear Complete 11—67	43	1	Compression Spring 3
20	1	Plane Bearing 4	44	1	Battery Holder

MAKITA LIMITED ONE YEAR WARRANTY

WARRANTY POLICY

Every Makita tool is thoroughly inspected and tested before leaving the factory. It is warranted to be free of defects from workmanship and materials for the period of ONE YEAR from the date of original purchase. Should any trouble develop during this one-year period, return the COMPLETE tool, freight prepaid, to one of Makita's Factory or authorized Service Centers. If inspection shows the trouble is caused by defective workmanship or material, Makita will repair (or at our option, replace) without charge.

This Warranty does not apply where:

- repairs have been made or attempted by others,
- repairs are required because of normal wear and tear,
- the tool has been abused, misused or improperly maintained,
- alterations have been made to the tool.

IN NO EVENT SHALL MAKITA BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES FROM THE SALE OR USE OF THE PRODUCT. THIS DISCLAIMER APPLIES BOTH DURING AND AFTER THE TERM OF THIS WARRANTY.

MAKITA DISCLAIMS LIABILITY FOR ANY IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF "MERCHANTABILITY" AND "FITNESS FOR A SPECIFIC PURPOSE," AFTER THE ONE-YEAR TERM OF THIS WARRANTY.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

Makita Corporation of America

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